Introduction to Programming with Python

Course: CSE 1100 – Introduction to Computing

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Objectives

- At the end of this lecture, students should be able to:
  - Use the if, elif, else conditional statement to perform conditional testing

if statement

```
number = 25

if number > 30:
    print("A")
```

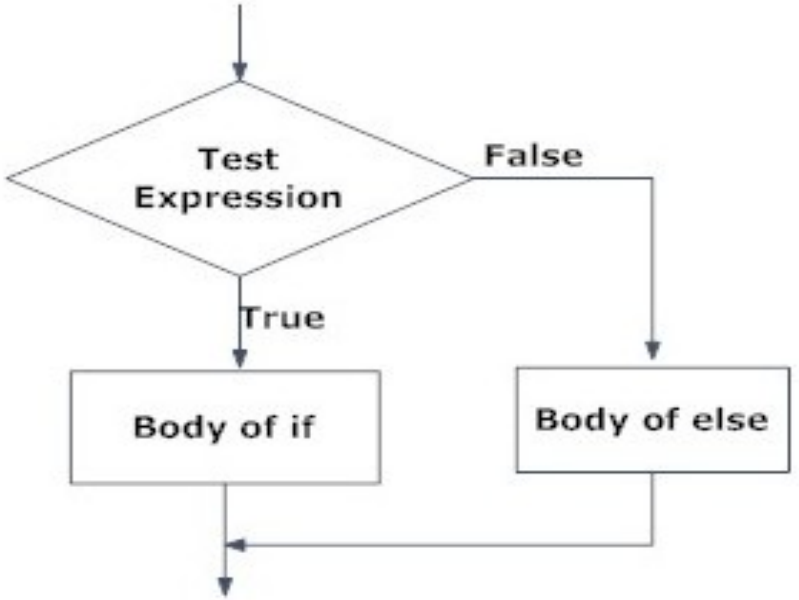
If, else statement

Python if...else Statement

Syntax of if...else

```
if test expression:
     Body of if
else:
     Body of else
```

Python if..else Flowchart



If, else statement

```
age = int(input("enter a value for age "))

if(age >= 18):
    print('an adult')

else:
    print("not an adult")
```

If, else statement

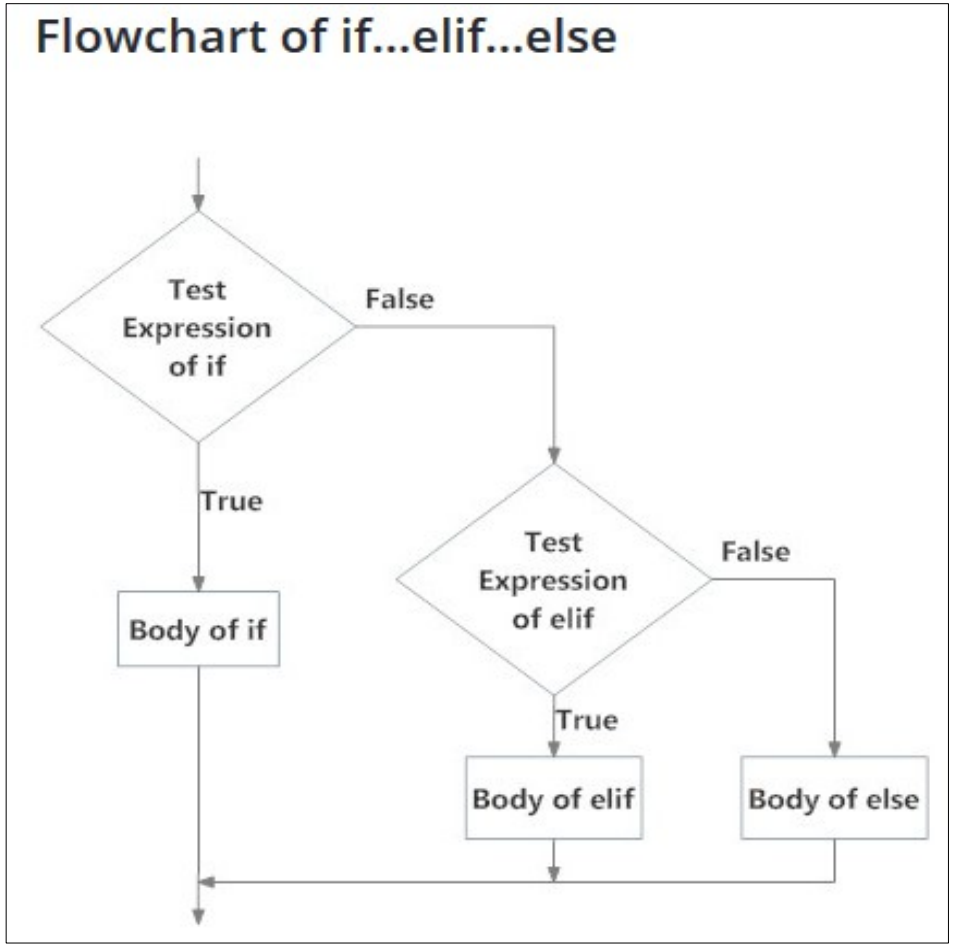
```
day_of_month = input('enter day of month ')
month_year = input('enter month of year ')


if((day_of_month == "14") and (month_year == "feb")):
    print('happy valentines ')
else:
    print('another miserable day')
```

If, elif, else statement

Python if...elif...else Statement

Syntax of if...elif...else

```
if test expression:
     Body of if
elif test expression:
     Body of elif
else:
     Body of else
```



If, elif, else statement

```
age = int(input("enter a value for age "))

if(age >= 18):
    print('an adult')

elif (age < 18) and (age >= 12):
    print("some category")

else:
    print(" a kid ")
```

If, elif, else statement

```
num = int(input("enter a number "))

if(num > 10) and (num < 100):
    print('double digit number')

elif (num > 100) and (num < 1000):
    print('triple digit number')

else:
    print("4 or more digits")
```

Homework

- Write a program in python that collects two numbers from the user via the keyboard and find their sum if the first number is greater than the second number, the product if the two numbers are the same, the difference if the first number is smaller than the second number.

- Write a program in python that generates two random numbers between 1 and 10 and find their sum if the first number is greater than the second number, the product if the two numbers are the same, the difference if the first number is smaller than the second number

- Write a program that collects a test score that can be a value from 0 to 100 and print a letter grade using the following information:

Homework

- Write a program that collects a test score that can be a value from 0 to 100 and print a letter grade using the following information:

Score	Grade
0 - 39	F
40 - 49	D
50 - 64	C
65 - 74	B
>= 75	A

End of Lecture!!!